GOVERNMENT OF THE DISTRICT OF COLUMBIA
OFFICE OF THE INSPECTOR GENERAL

AUDIT PERFORMED TO DETECT THE PRESENCE OF LEAD IN DISTRICT OF COLUMBIA RESIDENTIAL DRINKING WATER

AUSTIN A. ANDERSEN
INTERIM INSPECTOR GENERAL

OIG No. 04-2-16LA **June 10, 2005**

GOVERNMENT OF THE DISTRICT OF COLUMBIA
Office of the Inspector General

Inspector General

June 10, 2005

Gregg A. Payne, MD
Director
Department of Health
825 North Capitol Street, N.E., Suite 4400
Washington, D.C. 20002

Jerry N. Johnson
General Manager
D.C. Water and Sewer Authority
5000 Overlook Avenue, S.W.
Washington, D.C. 20032

Dear Dr. Payne and Mr. Johnson:

This is the final report summarizing the results of the Office of the Inspector General's (OIG) Audit Performed to Detect the Presence of Lead in District of Columbia Residential Drinking Water (OIG No. 04-2-16LA). The audit was performed in response to a request from Councilmember Carol Schwartz, who requested that our Office perform an independent analysis of the levels of lead in District drinking water to provide independent corroboration of the District of Columbia's Water and Sewer Authority (WASA) lead level reports (Exhibit A). The audit disclosed that laboratory tests performed on the water samples returned by District residents indicate improvement when compared to the results of prior WASA tests.

The Office of the Inspector General (OIG) made two unsuccessful attempts to secure a contract with an independent laboratory, consulting firm, or Certified Public Accounting (CPA) firm to conduct the water tests and analysis. In the third attempt, we engaged the CPA firm of Sakyi & Associates to perform an independent statistical analysis to detect the presence of lead in drinking water at District residences and compare the results to previous WASA tests. Included in the analysis was the requirement to select water samples from District residences that were included in two universes of residences previously tested by WASA. Sakyi & Associates calculated the required statistical sample sizes and randomly selected residences to be tested from the two universes.

Sakyi & Associates prepared detailed instructions for drawing water samples that were sent to specific residences, along with the sample kit and necessary mailing materials. Samples gathered by residents were then mailed to an independent laboratory to perform the necessary tests to detect the presence of lead in each water sample. The laboratory, Phase Separation Science, Inc., is state-certified (Maryland) to be in compliance with the U.S. Environmental Protection Agency (EPA) testing guidelines. Phase Separation Science, Inc. submitted the results of the tests performed on each water sample to Sakyi & Associates which compiled the results and performed the required data analyses. The independent report prepared by Sakyi & Associates is included at Exhibit B.

We monitored the work performed by Sakyi & Associates and discussed the results included in the attached report. Of the 871 residences selected for sampling, a total of 272 residents responded by submitting water samples to the testing laboratory. Because only a relatively small portion of the required water samples were submitted for testing, Sakyi & Associates was unable to develop a statistical projection of the test results.

Of the 272 residences tested, water samples from 16 residences indicated that the amount of lead present in water exceeded the acceptable level of lead in residential drinking water (15 parts per billion per the EPA). However, the overall results were encouraging because laboratory tests performed on the 272 water samples returned indicate improvement when compared to the results of prior WASA tests. It should be noted that the improvement was indicated only for those residences where water was tested under this current study. To illustrate, of the 272 water samples returned, test results showed that 11 residences had lead-in-water readings higher than previous WASA test results; 103 residences had lower levels of lead than reported in prior WASA tests; and 107 showed no lead content similar to the results of prior WASA tests. The remaining 51 water sample tests indicated mixed results (either an increase, decrease, or no change) when compared to the results of the prior tests that WASA performed on two drawn water samples (where 2 different lead level results were recorded). The test results for all 272 residences, listed by Ward, are included in the report at Exhibit B.

Sakyi & Associates provided the results of the water sample tests to the District residents who participated in the audit, to WASA, and the Department of Health (DOH) for their review and any action deemed appropriate in accordance with law and regulation. We discussed the test results with WASA officials who indicated that WASA representatives would be available to discuss the test results with District residents.

If you have questions, please contact me or William J. DiVello, Assistant Inspector General for Audits, at 202-727-2540.

Sincerely,

for Austin A. Andersen
Interim Inspector General

Enclosure

AAA/ws

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Carol Schwartz
Councilmember, At - Large

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February 27, 2004

Austin Andersen, Acting Inspector General
Office of the Inspector General
Government of the District of Columbia
717 14th Street NW, Fifth Floor
Washington, DC 20005

Dear Mr. Andersen:

I am writing to request that your office perform an independent analysis of the levels of lead in District drinking water. Given the seriousness of this issue, the District government must err on the side of extreme caution. Therefore, because people have lost faith in the District of Columbia Water and Sewer Authority's (WASA) credibility, it is important that there be independent corroboration of WASA's lead level reports.

If you have any questions regarding this request, please contact me or Adam Maier at (202) 724-8105. Thank you.

Sincerely,

Carol Schwartz
Councilmember, At-Large

SAKYI & ASSOCIATES, P.C.

THE CONDUCT OF TESTS TO DETECT THE AMOUNT OF LEAD CONTENT IN THE DISTRICT OF COLUMBIA RESIDENTIAL DRINKING WATER

March 11, 2005

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Independent Accountant's Report on Applying Agreed Upon Procedures

The Government of the District of Columbia
Office of the Inspector General

We have performed the procedures that were specified by the Office of the Inspector General (OIG), an operating agency of the Government of the District of Columbia (DC), in order to conduct a test to determine the amount of lead levels in DC residential drinking water during February and March, 2005. Individual DC residents who were randomly selected from two unique universes were responsible for properly following prescribed instructions to draw water samples and forward them to a certified laboratory for chemical analysis. This agreed upon procedures engagement was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants (AICPA). The sufficiency of these procedures is solely the responsibility of the specified users of this report. Consequently, we make no representation regarding the sufficiency of the procedures described below either for the purpose for which this report has been requested or for any other purpose.

The applied procedures formed a component part of the task order (Purchase Order # PO141369-V2, dated February 16, 2005) to Sakyi & Associates, P.C. To achieve the specific objectives of the engagement, we:

- Obtained from the DC OIG the listing of Universe I containing 1,241 residential addresses and Universe II containing 18,229 residential locations.

- Used AICPA statistical sampling software and randomly, we selected 395 sites from Universe I and 476 sites from Universe II to draw the water sample for the tests.

- Provided water drawing containers with their corresponding packaging boxes to District residents.

- Prepared mailing labels identified with specific control measures to help send the empty package from Sakyi & Associates' office to all selected residential sites. Also, we provided a different set of labels to forward the drawn water sample to the certified laboratory in Baltimore with controls to track the test results from each home selected for the test.

- Mailed packages out to residents through FedEx, including specific procedures for drawing water samples in accordance with the U.S. Environmental Protection Agency (EPA) guidelines.

- Monitored the daily response rate and the periodic test results from the certified laboratory.

- Analyzed the test results by comparing them with results recorded by WASA in prior similar tests.

- Sorted the test results according to Wards, street address numbers, and street address names.

- Mailed test results to the residents who drew the water sample for the tests and notified the DC Water and Sewer Authority (WASA) and the DC Department of Health (DOH) of the test results.

We were not engaged to, and did not conduct an examination of, the objective of which would be the expression of an opinion on the specified chemical analysis of DC Residential Drinking Water. Accordingly, we do not express such an opinion. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you.

This report is intended solely for the information and use of the parties listed above and is not intended to be and should not be used by anyone other than these specified parties.

Sakyi & Associates, P.C.
Washington, DC
March 11, 2005

DISTRICT OF COLUMBIA
OFFICE OF THE INSPECTOR GENERAL

THE CONDUCT OF TESTS TO DETECT THE AMOUNT OF LEAD CONTENT IN DISTRICT OF COLUMBIA RESIDENTIAL DRINKING WATER

EXECUTIVE SUMMARY

The District of Columbia Office of the Inspector General retained Sakyi & Associates, P.C. to solicit and collect water samples from District residents in conjunction with the requirements of two data universes; arrange to have the water samples tested by a laboratory certified by a state's health department that would calculate the amount of lead in the water samples taken from selected sites in the District of Columbia; and report the results of those tests, including projections of the sample results, to the two known universes. Out of a combined total of 871 residences selected for water testing and served with water drawing kits, 272 responded. We received 43 responses for Universe I and 229 for Universe II. Out of the 43 responses for Universe I, only one location showed lead levels above 15ppb. Also, the responses for Universe II revealed 15 locations with an amount of lead exceeding the acceptable lead levels in DC residential drinking water. We could not project the water test results to the sampled universes because District residents did not submit the required number of water samples to the laboratory for testing. However, laboratory tests for lead content in the samples returned by District residents indicate improvement when compared to prior WASA results. The list of DC residential sites that indicated lead level amounts above 15ppb are provided as Schedule B on page 7 of this report.

OBJECTIVES AND SCOPE

The objectives and scope of this project are to collect residential water samples and test them in a certified laboratory to determine whether the lead levels present in the water samples drawn on each of the two databases of DC locations are less than, equal to, or greater than the results of prior similar tests and to calculate a projection of the statistical results to the known universes. However, we were unable to develop a projection of the statistical results for the known universes because residents did not return a sufficient number (sample size) of water samples to permit a statistical projection.

BACKGROUND

The Army Corps of Engineers (COE) owns and operates the Washington Aqueduct, which draws water from the Potomac River and provides drinking water to DC and parts of neighboring areas in Maryland and Virginia. In prior routine tests for the presence of lead in DC water conducted by COE for the DC Water and Sewer Authority (WASA),

higher than acceptable levels of lead of greater than fifteen parts per billion (15ppb) began to appear. Initial inquiries into the rising presence of lead in DC water cited several possibilities for the increase, including:

1. A change in water chemistry (the introduction of chloramines as a secondary disinfectant) which could cause an increase in the leaching effect on lead pipes.

2. Others expressed the concern about the more than 23,000 underground lead service lines to residential properties.

3. Some speculated that increased lead levels were caused by a combination of water chemistry and a preponderance of lead service lines.

Whatever the catalyst, a decision was made to change the water chemistry by incrementally introducing orthophosphates, in lieu of the chloramines, so that by September 2004, the entire DC water system would be converted chemically to use of the orthophosphates.

In February 2004, the OIG received a letter from a DC Council member requesting that the OIG secure an independent analysis of District tap water to test for elevated levels of lead. To make an adequate and useful assessment using previous and current water tests for comparative purposes, the OIG obtained the water test results contained in two databases or universes. The following are the two universes of locations or residential addresses that require water sampling tests:

Universe I
This database contains 1,241 sites which represent the locations that tested lead content below 15 ppb.

Universe II
This database contains 18,229 locations representing the number of sites tested in 2004.

SAMPLE SELECTION METHOD

We applied American Institute of Certified Public Accountants' (AICPA) statistical sampling software to draw our samples from the electronic versions of the two distinct universes obtained from the OIG to conduct the tests. The selection process for Universe I was kept entirely separate from that of Universe II to help maintain a proper control system and permit us to separately analyze test results to achieve the project's objectives. In addition to the coding system and the actual residential addresses obtained from the OIG, we assigned numbers to each element of both universes. Each element or address was therefore identified with a distinct Universe Number (UN) and a distinct Sample Unit Number (SUN). By the use of the pivot system, we selected 395 and 476 samples from Universe I and Universe II, respectively. To ensure that each element from each population had equal representation before the selection process began, we used a

random selection approach. The statistical parameters used for the sample selection, the sample sizes for each population and the projection of the sample results give a 95 percent confidence level with a statistical precision of plus or minus 5 percent.

HANDLING AND MAILING PROCESS

We delivered water testing kits to all locations selected for testing to help occupants of each location draw the water samples. The water testing kits consisted of a lid-container with a fitting sizeable box, a letter from the OIG's office authorizing Sakyi & Associates to undertake this project (copy provided as Exhibit V), a specific instruction sheet in both English and Spanish guiding occupants on how to draw the water samples (copy provided as Exhibit VI) and a FedEx pre-paid addressed air bill. By the use of FedEx services, the packages were sent out to the residents and the enclosed pre-paid FedEx air bill was used by the residents to forward the drawn water sample to the specified laboratory.

CONTROL PROCEDURES

Each FedEx air bill carrying the empty water drawing kits was identified with corresponding UN and SUN labels. Our assigned labels matched with specific FedEx tracking numbers on the air bills. These control procedures helped us to track each package sent to a selected resident and also to find out those residents that did or did not receive the survey kits. On the side of each fitting box is our label containing the UN, SUN, and the associated residential addresses. The laboratory technicians were given specific instructions to record the UN and SUN on each package before performing the chemical analysis and also match such identities with each test result. These control procedures helped us to analyze the response rate and also know which residents responded or did not respond to the survey.

WATER SAMPLE COLLECTION METHOD

The occupants of the selected residences were instructed not to use water in their houses for at least six hours before drawing the water sample. The appropriate times suggested to residents to draw the water sample were first thing in the morning (before any water use) or otherwise upon returning home from work (where the water has not been used since morning). This included, not flushing toilets or using water in the house through any faucet. The water should be drawn from the kitchen sink only. In accordance with U.S. Environmental Protection Agency (EPA) guideline, cited in 40 CFR § 141.86(b)(3)(iii), residents were directed to turn on the cold water and allow it to run until there was a significant change in temperature. When the temperature change was noted, the resident should fill the container to the brim.

WATER SAMPLE COLLECTING PERIOD

We completed assembling water sampling kits and mailed them out to the residential occupants between February 4 and 8, 2005. With the consent of the OIG, the deadline for participants' responses was scheduled for March 11, 2005, and the laboratory was

notified of the date. Participants were therefore given 31 days, including 4 weekends, to draw the water samples and forward them to the laboratory for testing. Thirty-one days appeared to be a reasonable timeframe for any willing and cooperative resident to send in a timely response.

WATER TESTING METHODOLOGY

The DC residential drinking water was chemically analyzed in a certified laboratory owned and operated by Phase Separation Science, Inc. (PSSI) located in Baltimore, Maryland. PSSI performed the analysis in accordance with U.S. EPA Method 200.8. The method did not detect lead metal at a concentration less than or equal to 5 Practical Quantitation Limit or the level down to which lead is reported. PSSI provided each test result of Lead Content Units in micrograms per liter or parts per billion (ppb).

ERRORS AND RETURNS

There were numerical recording errors on the part of the laboratory technician for two residential water samples; therefore, we could not associate the UN and the SUN with the corresponding specific addresses. The combined total tested water samples were 274. However, the two with recording errors were dropped from the results to give a net total of 272. Due to various delivery problems, 14 sample kits and 2 sample kits from Universes I and II, respectively, were returned undelivered.

CURRENT TEST RESULTS AND ANALYSIS

The total elements in Universe I were 1,241 addresses and those of Universe II were 18,229 addresses resulting in a combined total of 19,470 addresses. Out of this combined total number, 871 (5%) samples were selected randomly from both universes for testing. Forty-three and 229 residents responded from Universe I and II, respectively, which constituted a 31 percent response rate. From the combined total of 272 responses, 256 fell below 15ppb and only 16 (1 from Universe I and 15 from Universe II) tested above the required acceptable level of 15 ppb. Prior similar tests conducted by WASA identified 58 sites above 15ppb for both draws. (See details in Schedules A and B below).

Schedule A – Total Locations With Lead Content Higher Than 15 PPB

Universe	Universe Total	Samples Mailed out	Number Responded	Percentage Response Rate	Prior Test Results > 15ppb Draw 1	Prior Test Results > 15ppb Draw 2	Current Test Results > 15ppb
I	**1,241**	**395**	**43**	**11**	**0**	**0**	**1**
II	**18,229**	**476**	**229**	**48**	**58**	**58**	**15**
Total	**19,470**	**871**	**272**	**31**	**58**	**58**	**16**

Schedule B - Summary Of Locations With High Lead Content

Universe	Street Address Number	Street Address Name	Zip Code	Ward	Test Result (ppb)
I	336	8Th Street, SE, Washington, DC	20003	6	44
II	35	Adams Street, NW, Washington, DC	20001	5	38
II	205	S Street, NE, Washington, DC	20002	5	22
II	1200	Orren Street, NE, Washington, DC	20002	5	25
II	540	5Th Street, SE, Washington, DC	20003	6	24
II	1529	C Street, SE, Washington, DC	20003	6	19
II	3330	P Street, NW, Washington, DC	20007	2	17
II	2813	35Th Street, NW, Washington, DC	20007	3	18
II	2028	Pierce Mill Road, NW, Washington, DC	20010	1	21
II	3542	Hertford Place, NW, Washington, DC	20010	1	17
II	1615	Longfellow Street, NW, Washington, DC	20011	4	19
II	1208	Decatur Street, NW, Washington, DC	20011	4	17
II	4102	13Th Place, NE, Washington, DC	20017	5	61
II	4011	13Th Street, NE, Washington, DC	20017	5	16
II	3222	20Th Street, NE, Washington, DC	20018	5	20
II	2818	Evarts Street, NE, Washington, DC	20018	5	16

COMPARISON WITH PRIOR WASA TEST RESULTS

We compared the laboratory tests results on water samples submitted by the 272 residents (Universe I and Universe II combined) with the results of previous tests conducted at those same residences under previous WASA tests. Under both universes, the current tests indicated that the number of locations with decreased lead content was greater than the number of locations with increased lead levels. These improvements may be attributable to or influenced by the application of orthophosphates to DC residential drinking water in September, 2004. The details of the analysis of all 272 water sample tests are shown below:

- Number of residences whose test results showed higher levels of lead than previous WASA tests – 11

- Number of residences whose test results showed lower levels of lead than previous WASA tests – 103

- Number of residences whose test results showed no presence of lead in the water sample, similar to the results of previous WASA tests, i.e., there was no change in lead levels – 107

- Number of residences whose test results showed either an increase, decrease or no change in lead levels when compared to previous WASA tests performed on two drawn water samples that showed differing lead level results – 51

SORTING OF CURRENT TEST RESULTS BY WARDS

For the purpose of tracing some of the possible causes and the confinement of lead levels in DC residential locations, the test results have been sorted out according to the 8 different electoral wards in DC. The test result analysis provided in Schedule C below depicts that there are a greater number of occurrences of lead in water in Ward 5 (7 out of 41 residences tested for lead content higher than 15 ppb) with the remaining wards testing at between 0 and 2 instances of lead in water greater than 15ppb.

CURRENT TEST RESULTS SORTED BY DC WARD

Schedule C UNIVERSE I

Ward	Results < or = 15ppb	Results > 15ppb	Total Tested
1	4	0	4
2	9	0	9
3	2	0	2
4	1	0	1
5	2	0	2
6	21	1	22
7	3	0	3
8	0	0	0
Total	42	1	43

UNIVERSE II

Ward	Results < or = 15ppb	Results > 15ppb	Total Tested
1	22	2	24
2	13	1	14
3	49	1	50
4	44	2	46
5	34	7	41
6	28	2	30
7	16	0	16
8	8	0	8
Total	214	15	229

ACKNOWLEDGEMENT

Sakyi & Associates appreciates the assistance extended to us by the management and staff of the District of Columbia Office of the Inspector General during our test of DC residential drinking water, and trust that the findings and comments in this report will be received by OIG's management in the spirit of cooperation with which they were offered.

Sakyi Associates, P.C.
Universe I Results
District of Columbia Residential Drinking Water
Test of Lead Content
Sorted by Wards

	Universe					*Prior Test Result*		
	and Sample	*Street*				*WASA*	*WASA*	*Current*
Number	*Unit Number*	*Number*	*Street Name*	*Zip Code*	*Ward*	*1st Draw*	*2nd Draw*	*Test Result*
1	U1-S356	1806	Kalorama Rd NW, Washington, D.C.	20009	1	3.3	0	0
2	U1-S478	1349	Perry Pl NW, Washington, D.C.	20010	1	0	3.48	0
3	U1-S22	2034	Seventeenth St NW, Washington, D.C.	20009	1	0	0	0
4	U1-S24	1716	V St NW, Washington, D.C.	20009	1	6.8	0	0
5	U1-S355	2202	Decatur Pl NW, Washington, D.C.	20008	2	9.9	0	0
6	U1-S303	1514	New Jersey Ave NW, Washington, D.C.	20001	2	8.5	2.3	0
7	U1-S195	1811	Nineteenth St NW, Washington, D.C.	20003	2	0	0	0
8	U1-S256	5	Pomander Walk NW, Washington, D.C.	20007	2	0	0	0
9	U1-S207	1410	S St NW, Washington, D.C.	20009	2	0	0	0
10	U1-S181	1828	S St NW, Washington, D.C.	20009	2	0	0	0
11	U1-S116	1534	T St NW, Washington, D.C.	20009	2	0	0	0
12	U1-S171	1517	Thirty-Third St NW, Washington, D.C.	20007	2	0	0	0
13	U1-S254	1530	Thirty-Third St NW, Washington, D.C.	20007	2	0	5.9	0
14	U1-S434	3110	Forty-Fourth St NW, Washington, D.C.	20016	3	0	0	0
15	U1-S164	4450	Volta PL NW, Washington, D.C.	20007	3	8.6	0	5.5
16	U1-S17	1614	Longfellow St NW, Washington, D.C.	20011	4	14.5	0	0
17	U1-S485	34	Bates St NW, Washington, D.C.	20001	5	0	0.86	0
18	U1-S403	1201	Varnum St NE, Washington, D.C.	20017	5	0	0	0
19	U1-S240	1009	C St NE, Washington, D.C.	20002	6	6.2	3.6	0
20	U1-S361	505	Constitution Ave NE, Washington, D.C.	20002	6	0	0	0
21	**U1-S396**	**336**	**Eighth St SE, Washington, D.C.**	**20003**	**6**	**0**	**9.7**	**44**
22	U1-S323	825	Eleventh St St NE, Washington, D.C.	20002	6	3.3	0	0
23	U1-S239	236	Eleventh St NE, Washington, D.C.	20002	6	0	0	6
24	U1-S288	318	Eleventh St NE, Washington, D.C.	20002	6	0	0	0
25	U1-S242	400	Eleventh St SE, Washington, D.C.	20003	6	5	4	0
26	U1-S243	406	Eleventh St SE, Washington, D.C.	20003	6	0	0	0
27	U1-S337	111	Fifth St SE, Washington, D.C.	20003	6	7	2.1	0
28	U1-S309	519	Fifth St SE, Washington, D.C.	20003	6	0	0	0
29	U1-S312	533	Fifth St SE, Washington, D.C.	20003	6	0	0	0
30	U1-S334	118	Fourth St SE, Washington, D.C.	20003	6	0	0	0
31	U1-S421	419	Fourth St SE, Washington, D.C.	20003	6	6.1	0	0
32	U1-S316	408	G St SE, Washington, D.C.	20003	6	2	0	0
33	U1-S167	215	Morgan St NW, Washington, D.C.	20001	6	2.8	0	0
34	U1-S276	321	Ninth St NE, Washington, D.C.	20002	6	0	0	0
35	U1-S326	125	Tennessee Ave NE, Washington, D.C.	20002	6	0	0	0
36	U1-S283	114	Tennessee Ave NE, Washington, D.C.	20002	6	8.4	0	0
37	U1-S285	140	Tennessee Ave NE, Washington, D.C.	20002	6	0	0	0
38	U1-S284	136	Tennessee Ave NE, Washington, D.C.	20002	6	2.1	0	0
39	U1-S184	510	Tenth St SE, Washington, D.C.	20003	6	0	0	0
40	U1-S244	401	Twelfth St SE, Washington, D.C.	20003	6	4.5	0	0
41	U1-S300	846	Division Ave NE, Washington, D.C.	20019	7	0	0	0
42	U1-S263	4533	Eads Pl NE, Washington, D.C.	20019	7	0	0	0
43	U1-S265	4541	Eads Pl NE, Washington, D.C.	20003	7	0	3.9	0

NOTE: Results in **bold** indicate test results in excess of 15 ppb.

Sakyi Associates, P.C.
Universe II Results
District of Columbia Residential Drinking Water
Test of Lead Content Sorted by Wards

	Universe and					*Prior Test Result*		
	Sample	*Street*				*WASA*	*WASA*	*Current*
Number	*Unit Number*	*Number*	*Street Name*	*Zip Code*	*Ward*	*1st Draw*	*2nd Draw*	*Test Result*
1	U2-S4401	2803	Eleventh St NW, Washington, D.C.	20001	1	12.9	62.9	0
2	U2-S4066	329	Elm St NW, Washington, D.C.	20001	1	4	2.7	0
3	U2-S597	1006	Fairmont St NW, Washington, D.C.	20001	1	9.6	9.3	0
4	U2-S5505	2204	Cathedral Ave NW, Washington, D.C.	20008	1	0	0	0
5	U2-S12140	1926	Calvert St NW, Washington, D.C.	20009	1	7.7	6.2	0
6	U2-S16888	1920	Biltmore St NW, Washington, D.C.	20009	1	6.5	0	0
7	U2-S14215	1654	Hobart St NW, Washington, D.C.	20009	1	2.7	9.2	6.2
8	U2-S15950	2333	Twentieth St NW, Washington, D.C.	20009	1	6	4.7	7.7
9	U2-S15775	1315	T St NW, Washington, D.C.	20009	1	5.7	4.5	0
10	**U2-S15273**	**2028**	**Pierce Mill Rd NW, Washington, D.C.**	**20010**	**1**	**18.2**	**123.1**	**21**
11	U2-S15340	441	Newton Pl NW, Washington, D.C.	20010	1	0	0	0
12	U2-S7064	3343	Eighteenth St NW, Washington, D.C.	20010	1	27	69	11
13	U2-S3683	1817	Kilbourne Pl NW, Washington, D.C.	20010	1	24.9	57.5	7
14	U2-S10084	2059	Park Rd NW, Washington, D.C.	20010	1	12.5	0	0
15	U2-S4471	1617	Monroe St NW, Washington, D.C.	20010	1	0	0	0
16	**U2-S3101**	**3542**	**Hertford Pl NW, Washington, D.C.**	**20010**	**1**	**21**	**67.7**	**17**
17	U2-S15336	633	Quebec Pl NW, Washington, D.C.	20010	1	8.5	21.3	10
18	U2-S17231	1749	Kilbourne Pl NW, Washington, D.C.	20010	1	18	13	0
19	U2-S11566	1356	Otis Pl NW, Washington, D.C.	20010	1	3rd=22		11
20	U2-S15682	3560	Eleventh St NW, Washington, D.C.	20010	1	16.1	17	0
21	U2-S7341	1838	Park Rd NW, Washington, D.C.	20010	1	16	4.3	0
22	U2-S9853	3118	Park Pl NW, Washington, D.C.	20010	1	19.3	18.9	6.3
23	U2-S11173	1507	Spring Pl NW, Washington, D.C.	20010	1	39.6	172.5	0
24	U2-S11584	1502	Ogden St NW, Washington, D.C.	20010	1	3rd=7.6		0
25	U2-S4154	15	Logan Cir NW, Washington, D.C.	20005	2	3.5	0	0
26	U2-S2668	3209	P St NW, Washington, D.C.	20007	2	0	0	13
27	U2-S15871	3205	R St NW, Washington, D.C.	20007	2	6	4.7	0
28	U2-S2719	1916	Thirty-Fifth Pl NW, Washington, D.C.	20007	2	64.9/148.4	14.8/184/4	15
29	U2-S14544	1527	Thirty-Third St NW, Washington, D.C.	20007	2	8.7	21	0
30	**U2-S13879**	**3330**	**P St NW, Washington, D.C.**	**20007**	**2**	**95**	**136**	**17**
31	U2-S1955	1694	Thirty-Second St NW, Washington, D.C.	20007	2	21	7.4	0
32	U2-S271	3739	Winfield Ln NW, Washington, D.C.	20007	2	0	0	0
33	U2-S3675	3514	T St NW, Washington, D.C.	20007	2	11.5	26.5	0
34	U2-S9399	1403	Thirty-First St NW, Washington, D.C.	20007	2	0	0	0
35	U2-S15383	3025	Dumbarton Ave NW, Washington, D.C.	20007	2	13.8	34.1	0
36	U2-S4015	3253	O St NW, Washington, D.C.	20007	2	7.4	9.1	0
37	U2-S17976	2516	Mill Rd NW, Washington, D.C.	20007	2	2.1	0	0
38	U2-S16385	16	Kalorama Cir NW, Washington, D.C.	20008	2	0	0	0
39	U2-S14971	2036	Thirty-Seventh St NW, Washington, D.C.	20007	3	21	72	7.3
40	U2-S11484	2240	Hall Pl NW, Washington, D.C.	20007	3	17	7.1	0
41	U2-S5187	4643	Q St NW, Washington, D.C.	20007	3	0	0	0
42	U2-S467	4707	Foxhall Cres NW, Washington, D.C.	20007	3	0	0	0
43	**U2-S15098**	**2813**	**Thirty-Fifth St NW, Washington, D.C.**	**20007**	**3**	**18**	**11.3**	**18**
44	U2-S7230	2111	Huidekoper Pl NW, Washington, D.C.	20007	3	0	0	0

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Number	*Unit Number*	*Number*	*Street Name*	*Zip Code*	*Ward*	*1st Draw*	*2nd Draw*	*Test Result*
45	U2-S17795	1505	Forty-Fourth St NW, Washington, D.C.	20007	3	7.9	5	0
46	U2-S16539	3609	Van Ness St NW, Washington, D.C.	20008	3	3.7	2.4	0
47	U2-S2255	2818	Twenty-Eighth St NW, Washington, D.C.	20008	3	7.2	5.5	0
48	U2-S15097	3306	Cathedral Ave NW, Washington, D.C.	20008	3	9.9	5.9	0
49	U2-S3856	2818	Cathedral Ave NW, Washington, D.C.	20008	3	26.5	19.4	0
50	U2-S17298	3624	Warren St NW, Washington, D.C.	20008	3	14	18.2	5.9
51	U2-S5114	3023	Rodman St NW, Washington, D.C.	20008	3	6.9	11	0
52	U2-S6943	2931	Tilden St NW, Washington, D.C.	20008	3	2.9	0	0
53	U2-S13483	3550	Albemarle St NW, Washington, D.C.	20008	3	17.6	40.6	9.3
54	U2-S7864	3116	Davenport St NW, Washington, D.C.	20008	3	0	0	0
55	U2-S13072	3207	Cathedral Ave NW, Washington, D.C.	20008	3	15.7	18.4	0
56	U2-S16336	3106	Cathedral Ave NW, Washington, D.C.	20008	3	2.6	59.3	0
57	U2-S6118	2903	Twenty-Ninth St NW, Washington, D.C.	20008	3	0	0	0
58	U2-S4946	3034	Rodman St NW, Washington, D.C.	20008	3	0	0	0
59	U2-S15630	3923	Jenifer St NW, Washington, D.C.	20015	3	10.4	2.2	0
60	U2-S865	4206	Ingomar St NW, Washington, D.C.	20015	3	0	0	0
61	U2-S12615	3738	Military Rd NW, Washington, D.C.	20015	3	5.9	4.2	0
62	U2-S4002	3428	Livingston St NW, Washington, D.C.	20015	3	0	0	0
63	U2-S17092	3819	Kanawha St NW, Washington, D.C.	20015	3	19	13.8	9.3
64	U2-S1261	3728	Oliver St NW, Washington, D.C.	20015	3	4.7	3.1	0
65	U2-S5616	4445	Harrison St NW, Washington, D.C.	20015	3	0	0	0
66	U2-S5939	5326	Broad Branch Rd NW, Washington, D.C.	20015	3	0	0	0
67	U2-S7266	5415	Nevada Ave NW, Washington, D.C.	20015	3	39	0	0
68	U2-S4065	3621	Newark St NW, Washington, D.C.	20016	3	0	0	0
69	U2-S17659	4217	Thirty-Ninth St NW, Washington, D.C.	20016	3	13.6	101.9	0
70	U2-S15874	3850	Rodman St NW, Washington, D.C.	20016	3	0	0	0
71	U2-S2566	4617	Chesapeake St NW, Washington, D.C.	20016	3	0	0	0
72	U2-S197	3229	Sutton Pl (A) NW, Washington, D.C.	20016	3	8.2	5	0
73	U2-S4863	3821	Upton St NW, Washington, D.C.	20016	3	0	0	0
74	U2-S15176	4402	Fessenden St NW, Washington, D.C.	20016	3	0	0	0
75	U2-S6555	3712	Cumberland St NW, Washington, D.C.	20016	3	0	0	0
76	U2-S13179	4613	Thirty-Eighth St NW, Washington, D.C.	20016	3	24.7	42.9	0
77	U2-S9825	4836	Albemarle St NW, Washington, D.C.	20016	3	0	0	0
78	U2-S15566	4449	Faraday Pl NW, Washington, D.C.	20016	3	11	31.7	11
79	U2-S10251	4730	Brandywine St NW, Washington, D.C.	20016	3	0	0	0
80	U2-S2241	3732	Alton Pl NW, Washington, D.C.	20016	3	3.9	0	0
81	U2-S2720	2965	Thirty-Eighth ST NW, Washington, D.C.	20016	3	0	0	0
82	U2-S6426	2333	Nebraska Ave NW, Washington, D.C.	20016	3	41	4	5.2
83	U2-S7449	4910	Albemarle St NW, Washington, D.C.	20016	3	0	0	0
84	U2-S8573	5049	Klingle St NW, Washington, D.C.	20016	3	0	0	0
85	U2-S10831	3817	Veazey St NW, Washington, D.C.	20016	3	0	0	0
86	U2-S9693	5027	Cathedral Ave NW, Washington, D.C.	20016	3	0	0	0
87	U2-S5511	5531	Sherier Pl NW, Washington, D.C.	20016	3	2.1	0	0
88	U2-S5581	3135	Ellicott St NW, Washington, D.C.	20018	3	0	0	0

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Number	*Unit Number*	*Number*	*Street Name*	*Zip Code*	*Ward*	*1st Draw*	*2nd Draw*	*Test Result*
89	U2-S11860	3744	Ninth St NW, Washington, D.C.	20010	4	7.9	4.6	0
90	U2-S11782	1211	Kennedy St NW, Washington, D.C.	20010	4	16	12	0
91	U2-S7201	5536	Chillum Pl NE, Washington, D.C.	20011	4	0	0	0
92	U2-S11961	1362	Hamilton St NW, Washington, D.C.	20011	4	0	0	0
93	U2-S15139	1407	Ingraham St NW, Washington, D.C.	20011	4	99.7	7.4	0
94	U2-S3929	6136	North Dakota Ave NW, Washington, D.C.	20011	4	0	0	0
95	U2-S6300	5920	Chillum Pl NE, Washington, D.C.	20011	4	10	12	0
96	U2-S12347	1238	Crittenden St NW, Washington, D.C.	20011	4	37	150	6.1
97	U2-S6463	709	Peabody St NW, Washington, D.C.	20011	4	0	0	0
98	U2-S10736	4703	Ninth St NW, Washington, D.C.	20011	4	0	0	0
99	U2-S11614	4421	Third St NW, Washington, D.C.	20011	4		97	0
100	U2-S15780	5017	Thirteenth St NW, Washington, D.C.	20011	4	5.5	6.6	0
101	U2-S1076	4610	Ninth St NW, Washington, D.C.	20011	4	51	23.7	13
102	U2-S13676	647	Hamilton St NW, Washington, D.C.	20011	4	44.6	16.4	0
103	U2-S13199	4529	Iowa Ave NW, Washington, D.C.	20011	4	53.6	114	0
104	U2-S9817	1419	Oglethorpe St NW, Washington, D.C.	20011	4	3.7	0	0
105	U2-S11078	32	Milmarson Pl NW, Washington, D.C.	20011	4	0	0	0
106	U2-S7444	5117	New Hampshire Ave NW, Washington, D.C.	20011	4	0	0	0
107	U2-S9071	4027	Fifth St NW, Washington, D.C.	20011	4	13.4	14.9	6.9
108	U2-S12174	614	Hamilton St NW, Washington, D.C.	20011	4	100	94	0
109	**U2-S907**	**1615**	**Longfellow St NW, Washington, D.C.**	**20011**	**4**	**30**	**67**	**19**
110	U2-S11031	1419	Rittenhouse St NW, Washington, D.C.	20011	4	0	0	0
111	U2-S8452	4921	Eighth St NW, Washington, D.C.	20011	4	0	0	0
112	U2-S1436	1340	Taylor St NW, Washington, D.C.	20011	4	25	45	8.2
113	**U2-S11126**	**1208**	**Decatur St NW, Washington, D.C.**	**20011**	**4**	**19.8**	**69.3**	**17**
114	U2-S16743	523	Ingraham St NW, Washington, D.C.	20011	4	25.1	34.6	0
115	U2-S7493	1674	Primrose Rd NW, Washington, D.C.	20012	4	0	0	0
116	U2-S2556	520	Aspen St NW, Washington, D.C.	20012	4	24.5	56.7	0
117	U2-S5103	7612	Thirteenth St NW, Washington, D.C.	20012	4	0	0	0
118	U2-S12235	6926	Ninth St NW, Washington, D.C.	20012	4	19	5.9	0
119	U2-S4509	618	Aspen St NW, Washington, D.C.	20012	4	12	10.9	0
120	U2-S13086	808	Aspen St NW, Washington, D.C.	20012	4	30.3	136.3	11
121	U2-S10210	1714	Tamarack St NW, Washington, D.C.	20012	4	2.9	0	0
122	U2-S5365	2963	McKinley St NW, Washington, D.C.	20015	4	0	0	0
123	U2-S18176	6316	Thirty-First Pl NW, Washington, D.C.	20015	4	0	0	0
124	U2-S8590	3345	Stephenson Pl NW, Washington, D.C.	20015	4	0	0	0
125	U2-S15756	3119	Oliver St NW, Washington, D.C.	20015	4	14.6	33.6	0
126	U2-S18164	3005	McKinley St NW, Washington, D.C.	20015	4	6	0	12
127	U2-S1089	3021	Oregon Knolls Dr NW, Washington, D.C.	20015	4	10	0	0
128	U2-S6378	6431	Western Ave NW, Washington, D.C.	20015	4	0	0	0
129	U2-S16022	2908	Rittenhouse St NW, Washington, D.C.	20015	4	10.8	16.6	0
130	U2-S2161	3211	Morrison St NW, Washington, D.C.	20015	4	26	52	0
131	U2-S9707	6617	Thirty-Second St NW, Washington, D.C.	20015	4	0	0	0
132	U2-S12255	3212	Oliver St NW, Washington, D.C.	20015	4	22	12	7.3

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133	U2-S5691	5531	Thirtieth Pl NW, Washington, D.C.	20015	4	0	0	0
134	U2-S2969	5730	Utah Ave NW, Washington, D.C.	20015	4	4.7	0	0
135	**U2-S12281**	**35**	**Adams St NW, Washington, D.C.**	**20001**	**5**	**14**	**16**	**38**
136	U2-S15355	111	W St NW, Washington, D.C.	20001	5	0	0	6.6
137	U2-S9854	145	Rhode Island Ave NW, Washington, D.C.	20001	5	19.1	29.4	0
138	U2-S8340	1638	Fourth St NW, Washington, D.C.	20001	5	5.1	0	0
139	U2-S2396	2214	Rand Pl NE, Washington, D.C.	20002	5	0	13.3	0
140	**U2-S7732**	**205**	**S St NE, Washington, D.C.**	**20002**	**5**	**30**	**82**	**22**
141	U2-S15961	2413	North Capitol St NE, Washington, D.C.	20002	5	0	0	0
142	U2-S2763	150	U St NE, Washington, D.C.	20002	5	12.3	11.4	12
143	U2-S15886	1234	Trinidad Ave NE, Washington, D.C.	20002	5	6.7	6.3	0
144	U2-S2396	2214	Rand Pl NE, Washington, D.C.	20002	5	0	13.3	0
145	U2-S13909	1138	Morse St NE, Washington, D.C.	20002	5	3.6	10.6	0
146	**U2-S15904**	**1200**	**Orren St NE, Washington, D.C.**	**20002**	**5**	**10.5**	**7.3**	**25**
147	U2-S8298	5233	Chillum Pl NE, Washington, D.C.	20011	5	0	0	0
148	U2-S9988	41	Buchanan St NE, Washington, D.C.	20011	5	0	0	0
149	U2-S4921	4822	Tenth St NE, Washington, D.C.	20017	5	0	0	0
150	**U2-S7355**	**4102**	**Thirteenth Pl NE, Washington, D.C.**	**20017**	**5**	**0**	**3.5**	**61**
151	U2-S16979	3315	Twelfth St NE, Washington, D.C.	20017	5	13.7	12.8	6.4
152	U2-S10895	4016	Fourteenth St NE, Washington, D.C.	20017	5	0	0	0
153	U2-S6361	4749	Queens Chapel Ter NE, Washington, D.C.	20017	5	0	0	0
154	U2-S13746	3204	Tenth St NE, Washington, D.C.	20017	5	9.5	33	11
155	**U2-S12254**	**4011**	**Thirteenth St NE, Washington, D.C.**	**20017**	**5**	**51**	**59**	**16**
156	U2-S1549	1405	Otis St NE, Washington, D.C.	20017	5	0	0	0
157	U2-S851	4528	South Dakota Ave NE, Washington, D.C.	20017	5	0	0	6.2
158	U2-S3542	1310	Monroe St NE, Washington, D.C.	20017	5	12.7	3.8	6.8
159	U2-S6318	1716	Franklin St NE, Washington, D.C.	20018	5	0	0	0
160	U2-S17047	1612	Kearney St NE, Washington, D.C.	20018	5	10.2	4.4	5.5
161	U2-S10358	4321	Twenty-First St NE, Washington, D.C.	20018	5	0	0	0
162	U2-S2844	3056	Thayer St NE, Washington, D.C.	20018	5	15.1	12.4	6.5
163	U2-S14539	2215	Lawrence St NE, Washington, D.C.	20018	5	7	20	8.5
164	U2-S379	3508	Twenty-Fourth St NE, Washington, D.C.	20018	5	0	0	0
165	U2-S15415	2853	Belair Pl NE, Washington, D.C.	20018	5	19.4	5.6	0
166	U2-S12815	3313	Twenty-Second St NE, Washington, D.C.	20018	5		20	0
167	U2-S5071	3901	South Dakota Ave NE, Washington, D.C.	20018	5	0	0	0
168	**U2-S12817**	**3222**	**Twentieth St NE, Washington, D.C.**	**20018**	**5**		**25**	**20**
169	U2-S9545	1526	Channing St NE, Washington, D.C.	20018	5	0	0	0
170	U2-S7099	2329	Thirteenth Pl NE, Washington, D.C.	20018	5	0	0	0
171	U2-S11177	1326	Downing St NE, Washington, D.C.	20018	5	25.3	0	0
172	**U2-S16641**	**2818**	**Evarts St NE, Washington, D.C.**	**20018**	**5**	**23.4**	**4.8**	**16**
173	U2-S9617	1504	Montana Ave NE, Washington, D.C.	20018	5	0	0	0
174	U2-S12542	1802	Lawrence St NE, Washington, D.C.	20018	5	0	0	0
175	U2-S5879	3900	Twentieth St NE, Washington, D.C.	20018	5	3.9	0	0
176	U2-S15997	631	Elliott St NE, Washington, D.C.	20002	6	0	0	0

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177	U2-S10731	817	Ninth St NE, Washington, D.C.	20002	6	0	0	0
178	U2-S12959	233	Eighth St NE, Washington, D.C.	20002	6	2.4	0	0
179	U2-S4565	221	A St NE, Washington, D.C.	20002	6	6.5	11.1	0
180	U2-S13895	152	Tennessee Ave NE, Washington, D.C.	20002	6	8.6	6.3	0
181	U2-S11021	611	A St NE, Washington, D.C.	20002	6	0	0	0
182	U2-12530	1222	Fifth St NE, Washington, D.C.	20002	6	17	5.6	5.7
183	U2-S3392	112	Tennessee Ave NE, Washington, D.C.	20002	6	3.4	18.6	0
184	U2-S16834	529	Tennessee Ave NE, Washington, D.C.	20002	6	0	0	0
185	U2-S17193	430	Eleventh St NE, Washington, D.C.	20002	6	19.1	28.7	0
186	U2-S12606	225	A St NE, Washington, D.C.	20002	6	0	0	0
187	U2-S17991	1244	C St NE, Washington, D.C.	20002	6	24	70	6.8
188	U2-S2418	1525	Gales St NE, Washington, D.C.	20002	6	0	0	0
189	U2-S1034	425	Fifth St NE, Washington, D.C.	20002	6	2.3	0	0
190	U2-S1	537	Fourth St SE, Washington, D.C.	20003	6	4.4	0	0
191	U2-S4249	1119	C St SE, Washington, D.C.	20003	6	0	0	0
192	U2-S333	1633	Potomac Ave SE, Washington, D.C.	20003	6	31	36	9.3
193	U2-S7190	211	Sixth St SE, Washington, D.C.	20003	6	0	0	0
194	**U2-S15075**	**540**	**Fifth St SE, Washington, D.C.**	**20003**	**6**	**12.9**	**67.3**	**24**
195	**U2-S13931**	**1529**	**C St SE, Washington, D.C.**	**20003**	**6**	**14.1**	**9.1**	**19**
196	U2-S11474	511	Third St SE, Washington, D.C.	20003	6	3rd=7.5		10
197	U2-S333	1633	Potomac Ave SE, Washington, D.C.	20003	6	31	36	0
198	U2-S15081	130	Duddington Pl SE, Washington, D.C.	20003	6	11.2	19.4	0
199	U2-S8515	1723	Independence Ave SE, Washington, D.C.	20003	6	27	14	0
200	U2-S11714	1339	East Capitol St SE, Washington, D.C.	20003	6	20	6.2	0
201	U2-S1754	209	Third St SE, Washington, D.C.	20003	6	0	0	0
202	U2-S2133	545	Seventh ST SE, Washington, D.C.	20003	6	14	19	0
203	U2-S1905	329	Fourteenth St NE, Washington, D.C.	20017	6	52.8	69.1	12
204	U2-S13533	1258	Carrollsburg Pl SW, Washington, D.C.	20024	6	34	29	0
205	U2-S2025	629	Third St NE, Washington, D.C.	20037	6	0	0	0
206	U2-S10668	2015	Rosedale St NE, Washington, D.C.	20002	7	0	0	0
207	U2-S8448	410	Twenty-First St NE, Washington, D.C.	20002	7	0	0	0
208	U2-S13351	3017	O St NW, Washington, D.C.	20007	7	0	0	0
209	U2-S10435	1122	Fifty-First Pl NE, Washington, D.C.	20019	7	0	0	0
210	U2-S9544	4223	Eads St NE, Washington, D.C.	20019	7	0	0	0
211	U2-S17159	4840	Hayes St NE, Washington, D.C.	20019	7	97.9	193.7	13
212	U2-S11311	1197	Forty-Sixth Pl SE, Washington, D.C.	20019	7	5	0	0
213	U2-S3882	4161	Alabama Ave SE, Washington, D.C.	20019	7	4.6	0	0
214	U2-S433	4013	Blaine St NE, Washington, D.C.	20019	7	0	0	0
215	U2-S6355	924	Fifty-Second St NE, Washington, D.C.	20019	7	13	6.4	0
216	U2-S6000	4306	Hayes St NE, Washington, D.C.	20019	7	0	0	0
217	U2-S9654	3432	Eads St NE, Washington, D.C.	20019	7	3.4	0	0
218	U2-S8561	4610	Hilltop Ter SE, Washington, D.C.	20019	7	0	0	0
219	U2-S10112	2211	T Pl SE, Washington, D.C.	20020	7	0	0	0
220	U2-S6724	1623	Thirtieth St SE, Washington, D.C.	20020	7	0	0	0

Sakyi Associates, P.C.
Universe II Results
District of Columbia Residential Drinking Water
Test of Lead Content Sorted by Wards

	Universe and					*Prior Test Result*		
	Sample	*Street*				*WASA*	*WASA*	*Current*
Number	*Unit Number*	*Number*	*Street Name*	*Zip Code*	*Ward*	*1st Draw*	*2nd Draw*	*Test Result*
221	U2-S6412	3164	Westover Dr SE, Washington, D.C.	20020	7	3.4	0	0
222	U2-S2462	1615	Fairlawn Ave SE, Washington, D.C.	20020	8	0	0	0
223	U2-S6521	2417	Skyland Pl SE, Washington, D.C.	20020	8	21	0	0
224	U2-S600	2147	Young St SE, Washington, D.C.	20020	8	0	3.9	0
225	U2-S10902	432	Oakwood St SE, Washington, D.C.	20032	8	0	0	0
226	U2-S9265	514	Newcomb St SE, Washington, D.C.	20032	8	0	0	0
227	U2-S3585	3609	Martin Luther Ave SE, Washington, D.C.	20032	8	46	18	0
228	U2-S10906	932	Southern Ave SE, Washington, D.C.	20032	8	2.1	0	0
229	U2-S9227	619	Elmira St SE, Washington, D.C.	20032	8	0	0	0